FM/AM STEREO RECEIVER

A-722/722L

KENWOOD

(COMPACT HIFI SYSTEM
UD COMPONENT SYSTEM UD-90)

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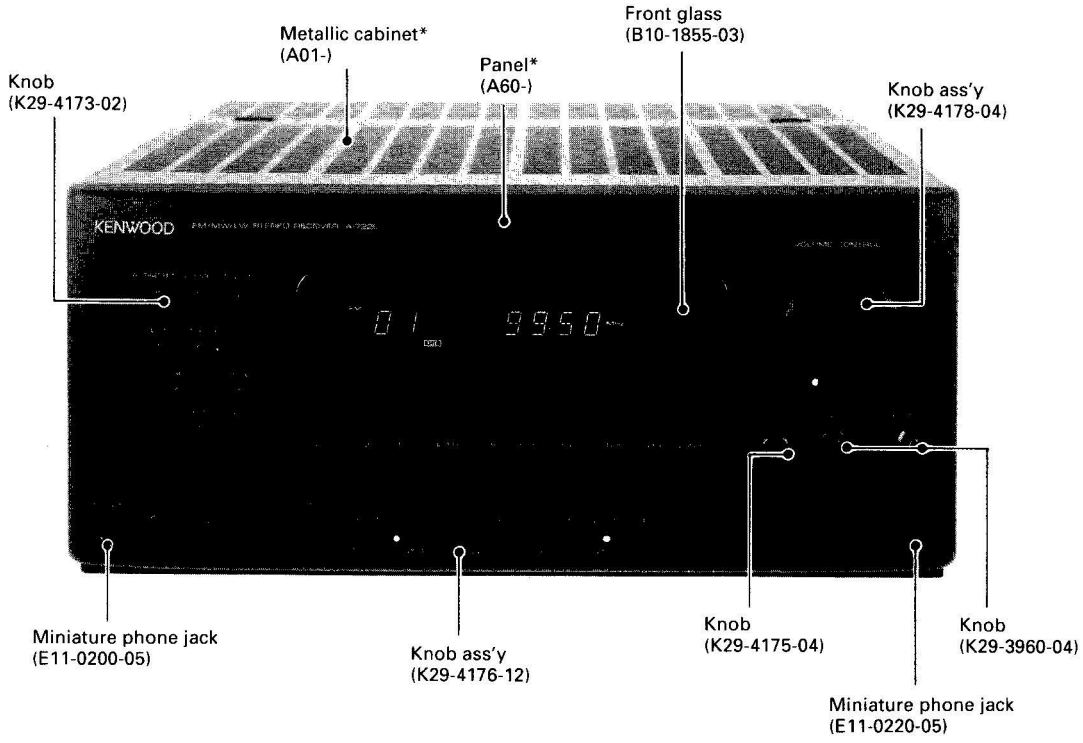
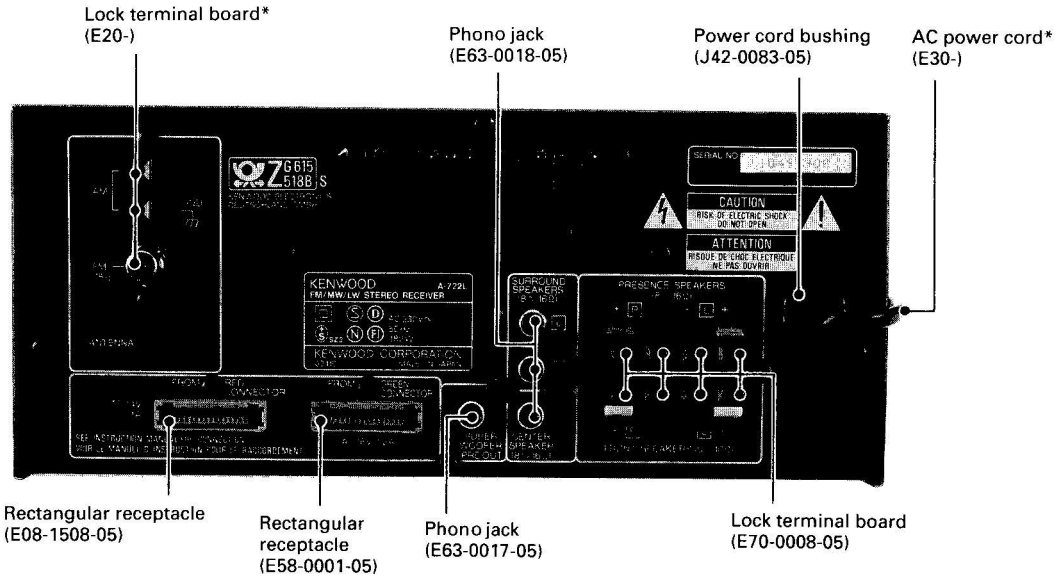
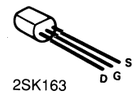


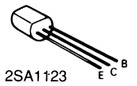


[A-722 : K, P, Y, M, X type
A-722L : T, E type]

* Refer to parts list on page 35
Photo is A-722L.



2SK163
2SK364



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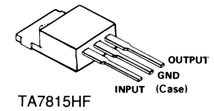
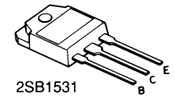
2SC1923
2SC2003
2SC2878
2SD1302



TA7815HF
UPC7815HF



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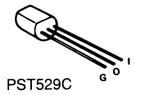

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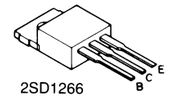

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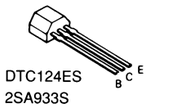

DTC124ES
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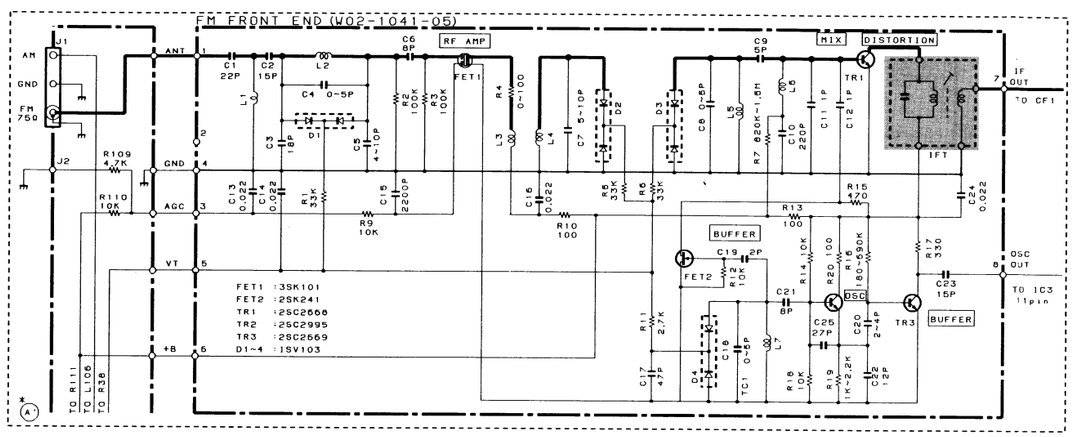
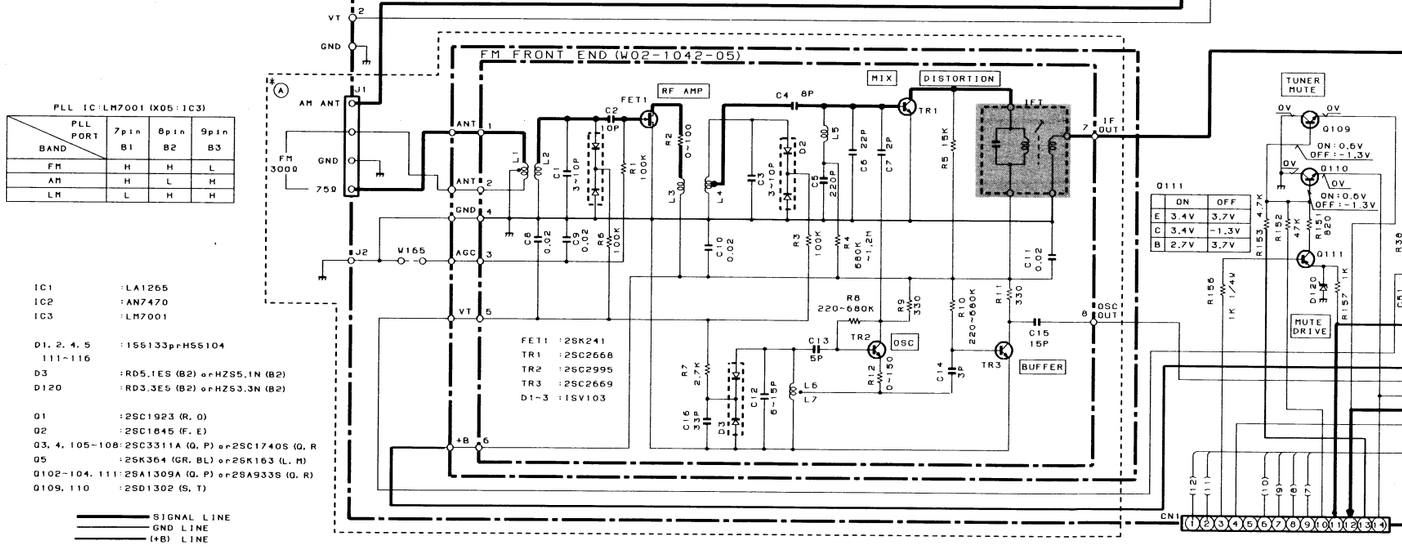
2SC1740S





PLL IC:LM7001 (X05:IC3)

PLL PORT / BAND	7pin B1	8pin B2	9pin B3
FM	H	H	L
AM	H	L	H
LM	L	H	H

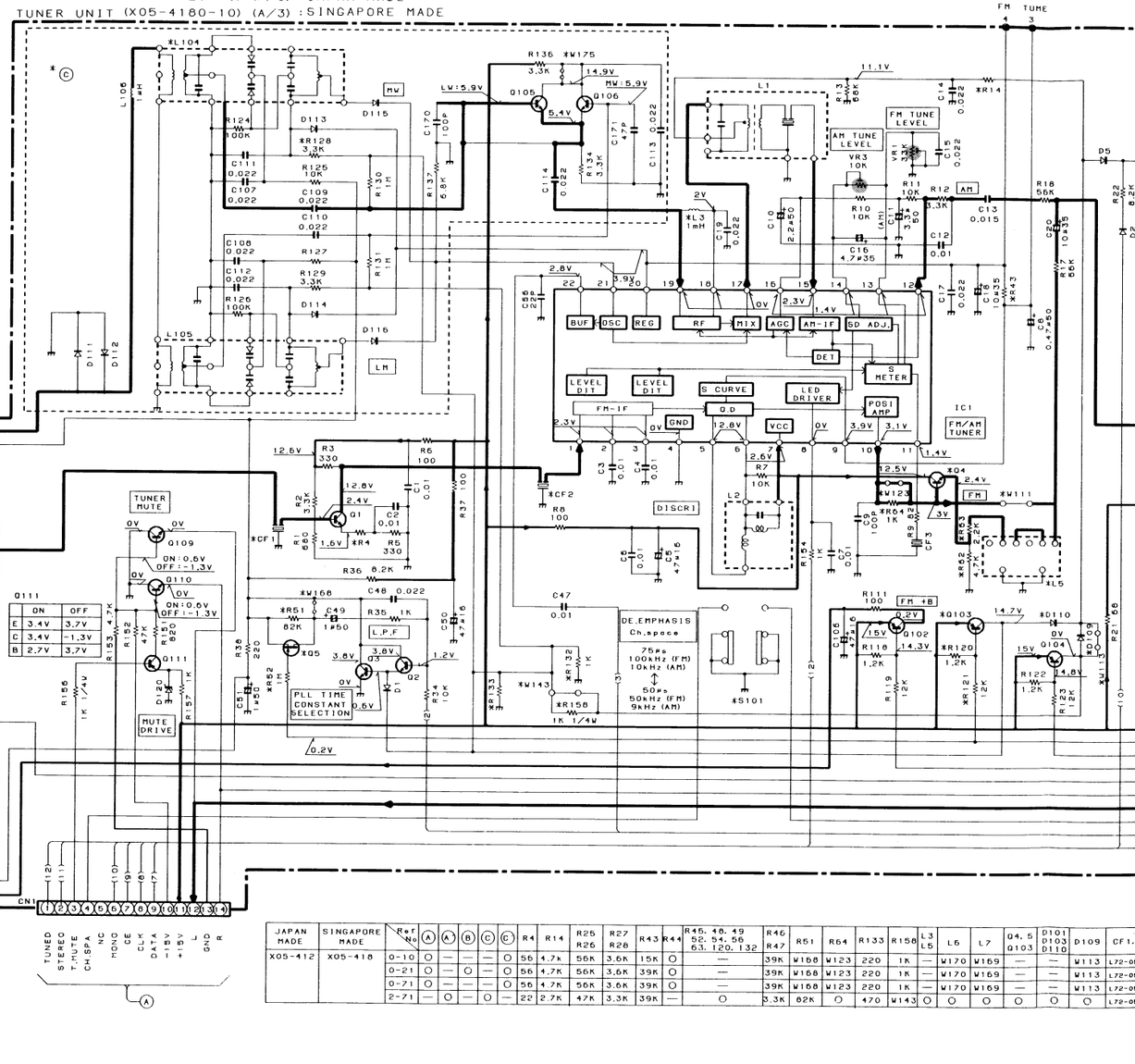
IC1 :LA1265
IC2 :AN7470
IC3 :LM7001

D1, 2, 4, 5 111~116 :1SS133prHSS104
D3 :RD5.1ES (B2) orHZS5.1N (B2)
D120 :RD3.3ES (B2) orHZS3.3N (B2)

Q1 :2SC1923 (R, O)
Q2 :2SC1845 (F, E)
Q3, 4, 105~108 :2SC3311A (Q, P) or2SC1740S (Q, R
Q5 :2SK364 (GR, BL) or2SK163 (L, M)
Q102~104, 111 :2SA1309A (Q, P) or2SA933S (Q, R)
Q109, 110 :2SD1302 (S, T)

SIGNAL LINE
GND LINE
(+B) LINE

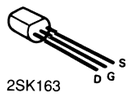
(X05-4120-10) (A/3) :JAPAN MADE
TUNER UNIT (X05-4180-10) (A/3) :SINGAPORE MADE



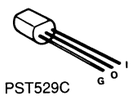
Q111	
ON	OFF
E 3.4V	3.7V
C 3.4V	-1.3V
B 2.7V	3.7V

JAPAN MADE	SINGAPORE MADE	Ref No.	A	A	B	C	C	R4	R14	R25 R26	R27 R28	R43	R44	R45, 48, 49 52, 54, 56 63, 120, 132	R46 R47	R51	R64	R133	R158	L3 L5	L6	L7	Q4, 5 Q103	D101 D103 D110	D109	CF1,
X05-412	X05-418	0-10	O	—	—	—	O	56	4.7K	56K	3.6K	15K	O	—	39K	W158	W123	220	1K	—	W170	W169	—	—	W113	L72-0
		0-21	O	—	O	—	O	56	4.7K	56K	3.6K	39K	O	—	39K	W158	W123	220	1K	—	W170	W169	—	—	W113	L72-0
		0-71	O	—	—	—	O	56	4.7K	56K	3.6K	39K	O	—	39K	W158	W123	220	1K	—	W170	W169	—	—	W113	L72-0
		2-71	—	O	—	O	—	22	2.7K	47K	3.3K	39K	—	O	3.3K	62K	O	470	W143	O	O	O	O	O	O	L72-0

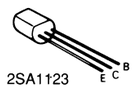
CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



2SK163
2SK364



PST529C



2SA1123
2SA954
2SA992
2SB764
2SC1845
2SC1923
2SC2003
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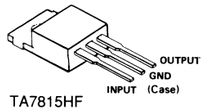
2SD1302



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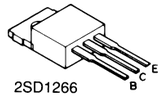
UPC7815HF



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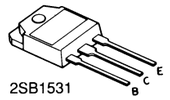

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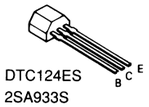

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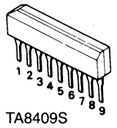
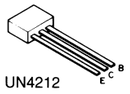
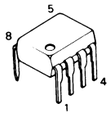


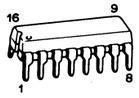
TA8409S



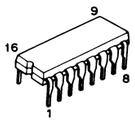
UN4212
2SA1309A
2SC3311A



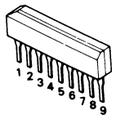
NJM4565D-D



LM7001

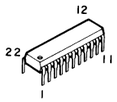


AN7470
TC9215P



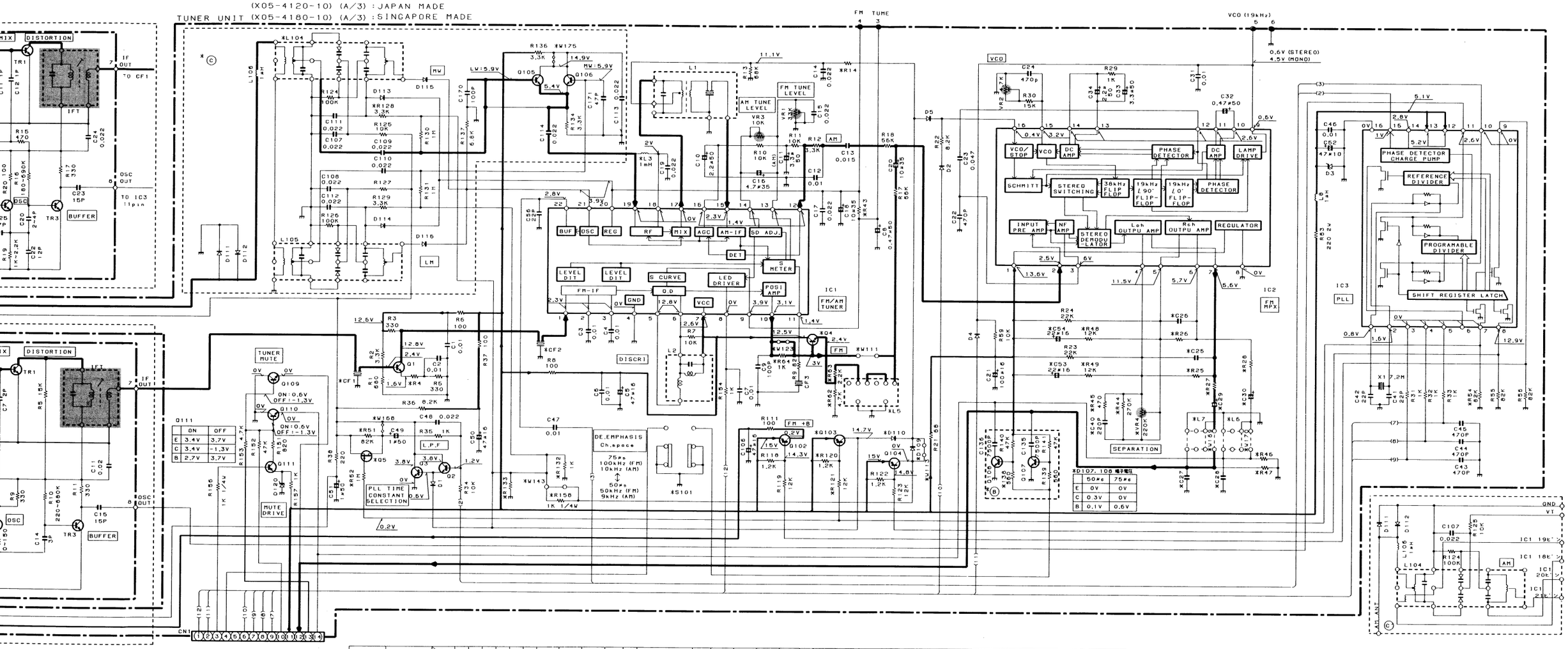
LA7910
TA8409S

RC4565D-D
UPB565C



LA1265

(X05-4120-10) (A/3) : JAPAN MADE
TUNER UNIT (X05-4180-10) (A/3) : SINGAPORE MADE



Q111	ON	OFF
E	3.4V	3.7V
C	3.4V	-1.3V
B	2.7V	3.7V

Q109 / Q110	ON	OFF
	0.6V	-1.3V

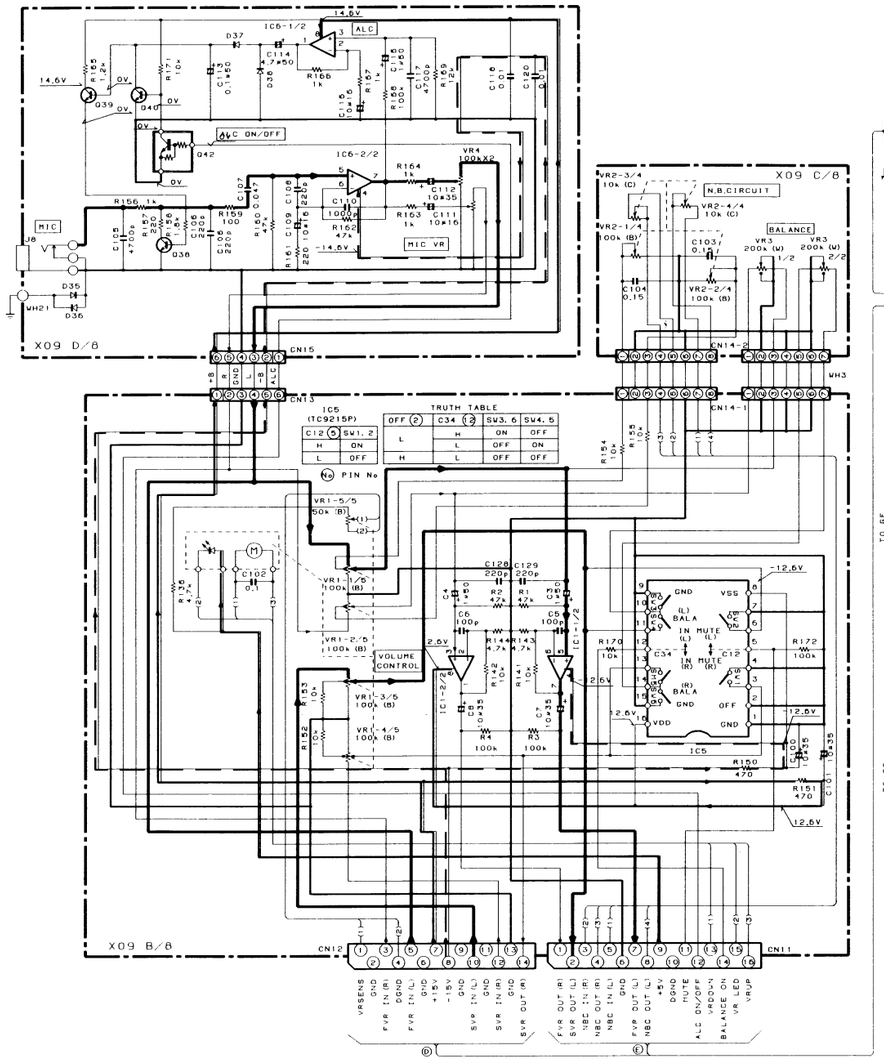
*D107, 108 種子電圧	50#s	75#s
E	0V	0V
C	0.3V	0V
B	0.1V	0.6V

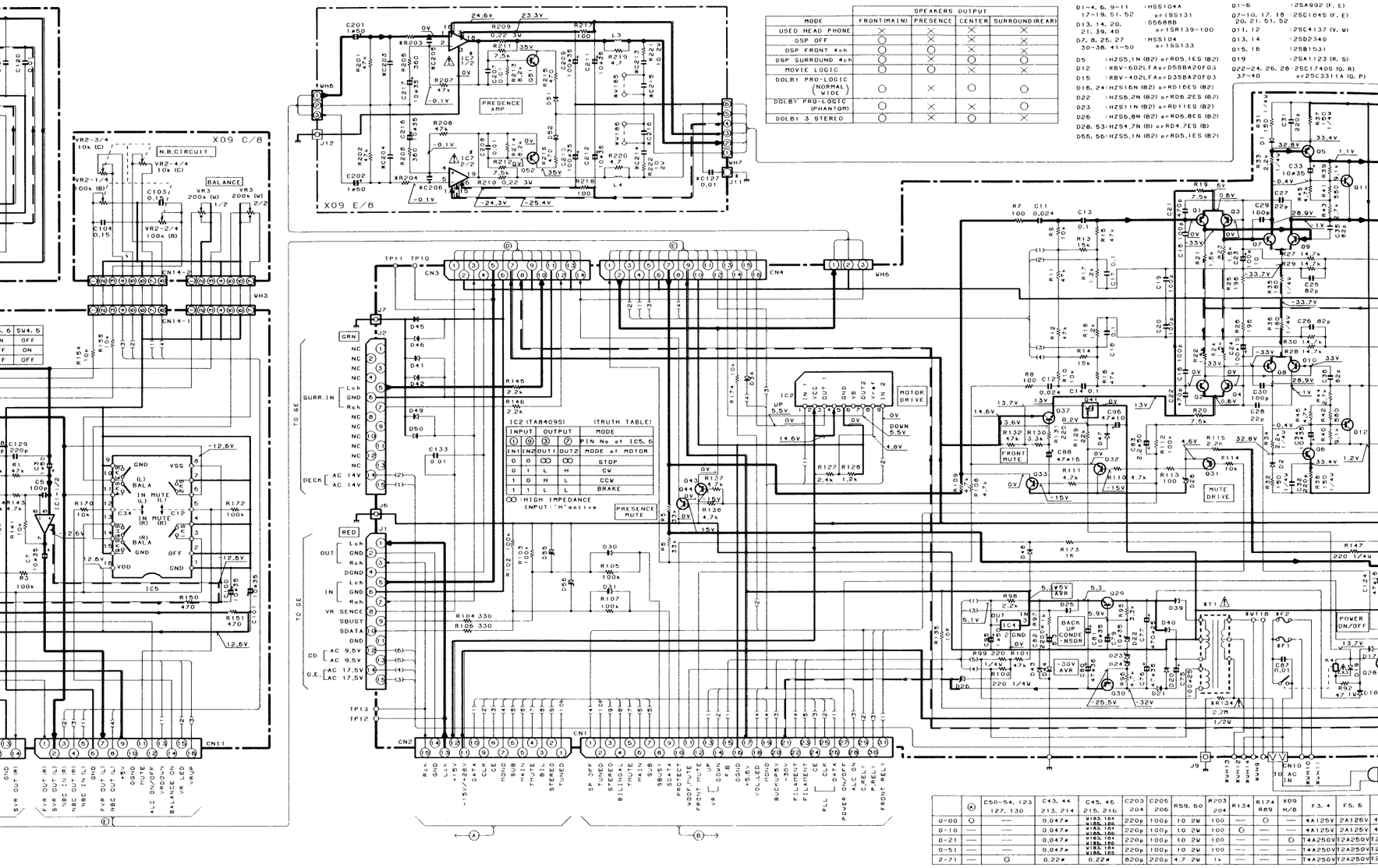
JAPAN MADE	SINGAPORE MADE	Ref No	Ⓐ	Ⓐ	Ⓑ	Ⓒ	Ⓒ	R4	R14	R25 R26	R27 R28	R43	R44	R45. 48. 49 52. 54. 56 63. 120. 132	R46 R47	R51	R64	R133	R158	L3 L5	L6	L7	Q4, 5 Q103	D101 D103 D110	D109	CF1, 2	VR4	S101	C25 C26	C27 C28	C29 C30	C40 C53 C54	W111
X05-412	X05-418	0-10	O	—	—	—	O	56	4.7K	56K	3.6K	15K	O	—	39K	W168	W123	220	1K	—	W170	W169	—	—	W113	L72-0531	—	X	150P	0.022	1#50	—	O
		0-21	O	—	O	—	O	56	4.7K	56K	3.6K	39K	O	—	39K	W168	W123	220	1K	—	W170	W169	—	—	W113	L72-0531	—	O	150P	0.012	1#50	—	O
		0-71	O	—	—	—	O	56	4.7K	56K	3.6K	39K	O	—	39K	W168	W123	220	1K	—	W170	W169	—	—	W113	L72-0531	—	X	150P	0.012	1#50	—	O
		2-71	—	O	—	O	—	22	2.7K	47K	3.3K	39K	—	O	3.3K	82K	O	470	W143	O	O	O	O	O	O	L72-0536	O	X	1000P	4700P	2.2#50	O	—

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Y05-2560-11

A-722/722L
KENWOOD





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DC voltages a
voltmeter wit
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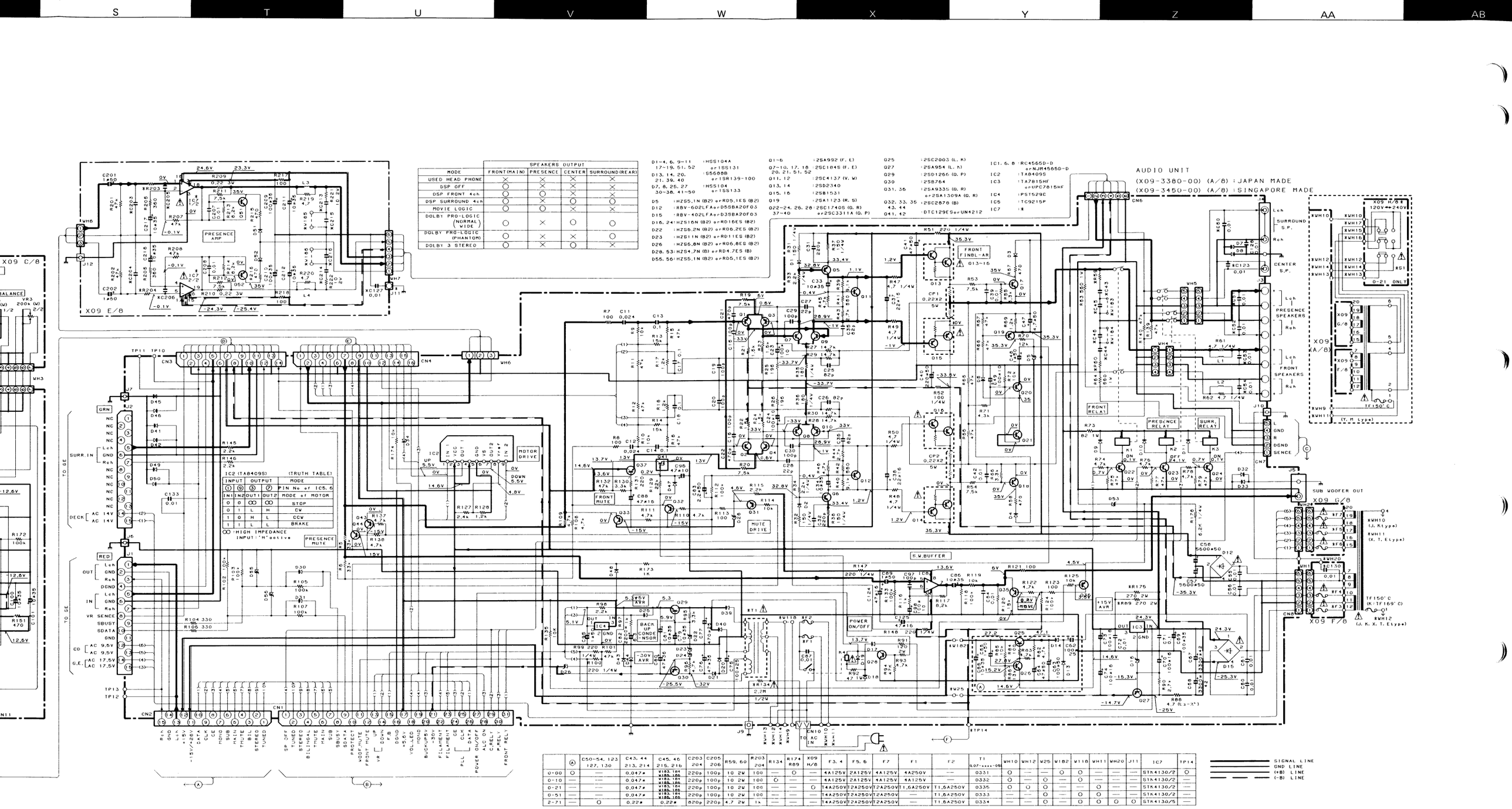

MODE	SPEAKERS OUTPUT FRONT(MAIN)	PRESENCE	CENTER	SURROUND(REAR)
USED HEAD PHONE	×	×	×	×
DSP OFF	○	×	×	×
DSP FRONT 4ch	○	○	×	×
DSP SURROUND 4ch	○	×	○	○
MOVIE LOGIC	○	○	×	×
DOLBY PRO-LOGIC (NORMAL / WIDE)	○	×	○	○
DOLBY PRO-LOGIC (PHANTOM)	○	×	×	○
DOLBY 3 STEREO	○	×	○	×

D1~4, 6, 9~11 : HSS104A or 1SS131
17~19, 51, 52
D13, 14, 20, 21, 39, 40 : S5688B or 1SR139-100
D7, 8, 25, 27, 30~38, 41~50 : HSS104 or 1SS133
D5 : HZS5.1N (B2) or RD5.1ES (B2)
D12 : RBV-602LFA or D5SBA20F03
D15 : RBV-402LFA or D3SBA20F03
D16, 24 : HZS10N (B2) or RD10ES (B2)
D22 : HZS6.2N (B2) or RD6.2ES (B2)
D23 : HZS11N (B2) or RD11ES (B2)
D26 : HZS6.8N (B2) or RD6.8ES (B2)
D28, 53 : HZS4.7N (B) or RD4.7ES (B)
D55, 56 : HZS5.1N (B2) or RD5.1ES (B2)

Q1~6 : 2SA992 (F, E)
Q7~10, 17, 18, 20, 21, 51, 52 : 2SC1685 (F, E) or NJM4565D-D
Q11, 12 : 2SC4137 (V, W)
Q13, 14 : 2SD2340
Q15, 16 : 2SB1531
Q19 : 2SA1123 (R, S)
Q22~24, 25, 26, 37~40 : 2SC1740S (Q, R) or 2SC3311A (Q, P)
Q25 : 2SC2003 (L, K)
Q27 : 2SA954 (L, K)
Q29 : 2SD1266 (Q, P)
Q30 : 2SB764
Q31, 36 : 2SA933S (Q, R) or 2SA1309A (Q, R)
Q32, 33, 35, 43, 44 : 2SC2878 (B)
Q41, 42 : DTC129ES or UN4212
IC1, 6, 8 : RC4565D-D or NJM4565D-D
IC2 : TA8409S
IC3 : TA7815HF or UPC7815HF
IC4 : PST529C
IC5 : TC9215P
IC7 : *

INPUT ①	INPUT ⑨	OUTPUT ③	OUTPUT ⑦	MODE (PIN No. of IC5, 6)
IN1	IN2	OUT1	OUT2	MODE of MOTOR
0	0	∞	∞	STOP
0	1	L	H	CW
1	0	H	L	CCW
1	1	L	L	BRAKE

∞ : HIGH IMPEDANCE
INPUT : "H" active

	Ⓐ	C50~54, 123, 127, 130	C43, 44, 213, 214	C45, 46, 215, 216	C203, 204	C205, 206	R59, 60	R203, 204	R134	R174, R89	X09 H/8	F3, 4	F5, 6	F7	F1	F2	T1	WH10	WH12	W25	W182	W118	WH11	WH20	J11	IC7	TP14
0-00	○	—	—	0.047# W193.104 W193.106	220p	100p	10 2W	100	—	○	—	4A125V	2A125V	4A125V	4A250V	—	0331	○	—	—	○	○	—	—	—	STK4130/2	○
0-10	—	—	—	0.047# W193.104 W193.106	220p	100p	10 2W	100	○	—	—	4A125V	2A125V	4A125V	4A125V	—	0332	○	—	○	—	○	—	—	—	STK4130/2	—
0-21	—	—	—	0.047# W193.104 W193.106	220p	100p	10 2W	100	—	—	○	T4A250V	T2A250V	T2A250V	T1.6A250V	T1.6A250V	0335	○	○	○	—	○	—	—	—	STK4130/2	—
0-51	—	—	—	0.047# W193.104 W193.106	220p	100p	10 2W	100	—	—	—	T4A250V	T2A250V	T2A250V	—	T1.6A250V	0333	—	—	○	—	○	—	○	—	STK4130/2	—
2-71	—	○	—	0.22#	820p	220p	4.7 2W	1k	—	—	—	T4A250V	T2A250V	T2A250V	—	T1.6A250V	0334	—	—	○	—	○	○	○	○	STK4130/5	—

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Y05-2560-11

A-722/722L

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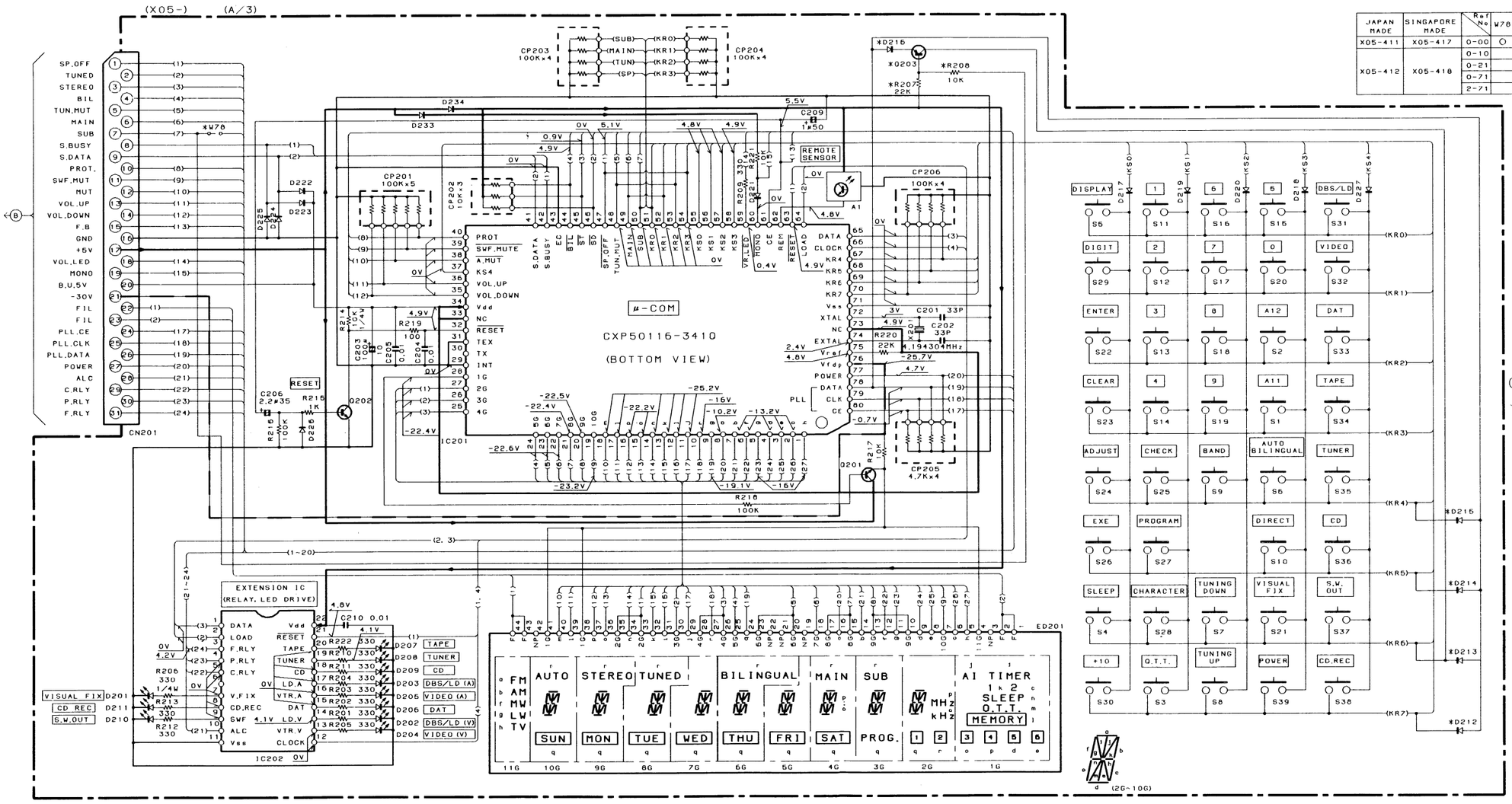

JAPAN MADE	SINGAPORE MADE	Ref No	W78	D212	D213	D214	D215	D203 D216	R207 R208
X05-411	X05-417	0-00	○						
X05-412	X05-418	0-10		○					
		0-21		○		○		○	○
		0-71		○	○	○			
		2-71		○	○	○	○		

D201, 202, 204 : B30-2408-05
D203, 205~211 : B30-1012-05
D212~227, 231~234 : HSS104 or 1SS133
Q201, 202 : 2SC1740S (Q, R) or 2SC3311A (Q, R)
Q203 : 2SA933S (Q, R) or 2SA1309A (Q, R)
IC201 : CXP50116-3410
IC202 : MSM59371

CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Y05-2560-11

A-722/722L
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